

Applicant: Craig E. Goldman
For: Programmable Controller for Controlling an Output State

ABSTRACT

A programmable controller for controlling one or more outputs based on position
5 indicated from a position transducer. The controller includes an interface that converts the
transducer signals into a change in position, a transducer position counter that accumulates the
change in transducer position, and a net forward position counter that accumulates the net
forward position. The position counter updates when the transducer signals indicate a change of
position. The net forward position counter updates when the value of the net forward position
10 counter and the value of the transducer position counter are equal and the transducer interface
indicates a forward movement. Each controller output has an independent comparator and width
counter. The comparator examines the net forward position to determine when to change the
output or begin a pulse. The width counter counts down to zero, which ends a pulse.

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